

# NFRC Regulatory Affairs & Marketing Committee

Garrett Stone, Chairman

November 2008

# Increased Residential Energy Efficiency Requirements Approved for the 2009 IECC

- Lower SHGC in the south
- Lower U-Factor in the south
- Improved performance path
- Overall changes result in a 10% - 15% more efficient residential code



# Lower SHGC in Southern Climate Zones

	Current Code	2009 Code
Climate Zone 3	0.40	0.30
Climate Zone 2	0.37	0.30
Climate Zone 1	0.37	0.30

# Lower U-Factor in Southern Climate Zones

	Current Code	2009 Code
Climate Zone 4	0.40	0.35
Climate Zone 3	0.65	0.50
Climate Zone 2	0.75	0.65

- New exception for impact glazing of 0.75 in Zone 2 and of 0.65 in Zone 3.

# Other Fenestration-Related Proposals Not Approved:

- Proposal to eliminate U-Factor and SHGC trade-off caps
- Proposal to eliminate SHGC requirement for fenestration with a certain projection factor
- Proposals to establish a 0.32 U-Factor in northern climates and high SHGC trade-off

# Significant Performance Path Standard Reference Design Changes

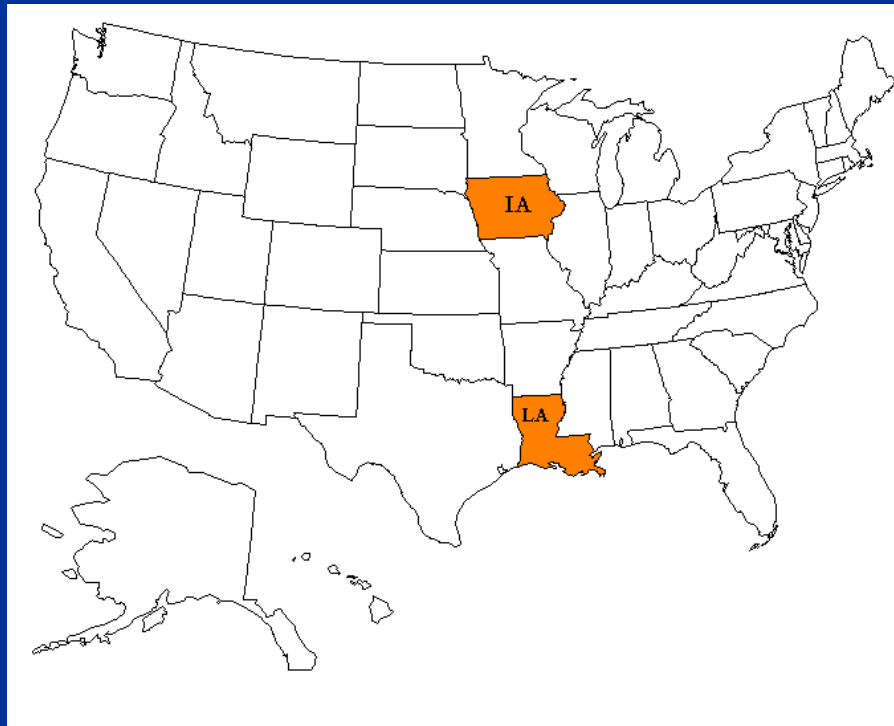
- Eliminated mechanical equipment trade-offs
- Reduced window area to 15%
- Changed thermostat set points to 72° (heating) and 75° (cooling)

# Increased Commercial Energy Efficiency Requirements Approved for the 2009 IECC

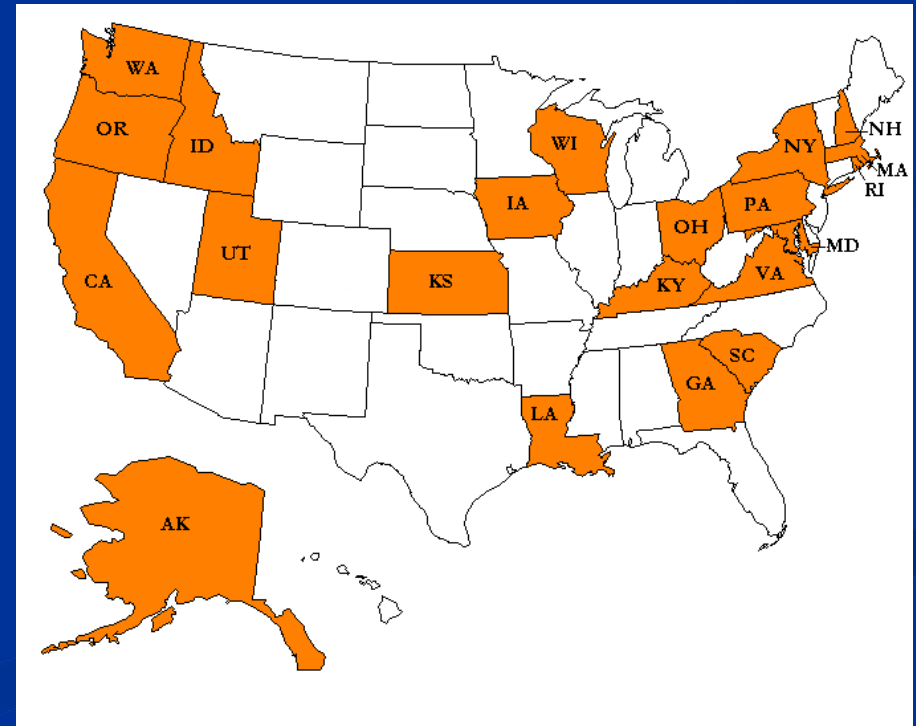
- Fenestration ratings still determined according to NFRC
  - Proposed exception for AAMA 507 disapproved for commercial glazing
- Limited improvements to prescriptive window U-factor and SHGC requirements approved
  - more stringent proposals not approved
- Substantial improvements in other commercial building requirements

# Continued Progression of Adoption 2006 IECC or Equivalent Code

November  
2006



November  
2008



# States Adopting the 2006 IECC in 2008

- Virginia
  - Effective May 2008
- South Carolina
  - Effective July 2008
- Massachusetts
  - 2006 or 2007 IECC (or HERS score of 100)
  - Effective October 2008

# States Adopting the 2006 IECC in 2008

- Idaho
  - Effective January 2008
- Kentucky
  - Effective January 2008
- Georgia
  - Effective January 2008
- Wisconsin
  - Effective March 2008

# Other State Energy Code Improvements

- California
  - Adopted new 2008 California Energy Efficiency Standards in April 2008 (effective July 1, 2009)
- Florida
  - Finalizing a 15% energy efficiency improvement to 2007 Residential Code
  - New statute requires use of the most recent IECC as its model, plus a percentage improvement every few years

# Other State Energy Code Improvements

- Maine

- Passed legislation in April 2008 requiring adoption of 2009 IECC (effective July 2010)

- Michigan

- 2003 Michigan Uniform Energy Code (based on IECC/IRC) is effective as of Oct. 24, 2008 when court lifted injunction.

# Federal Legislation: EE Tax Credit Extensions

- H.R. 1424
  - Extended window and door replacement and insulation tax credit for 2009
  - Extended new energy efficiency home tax credit for 2009